ACES WORK IN PROGRESS

(LOGISTICS CONFERENCE)

Ben Bolton
HQ AFCESA/CEOM

May 23, 2000

Air Force
Civil Engineer
Support Agency

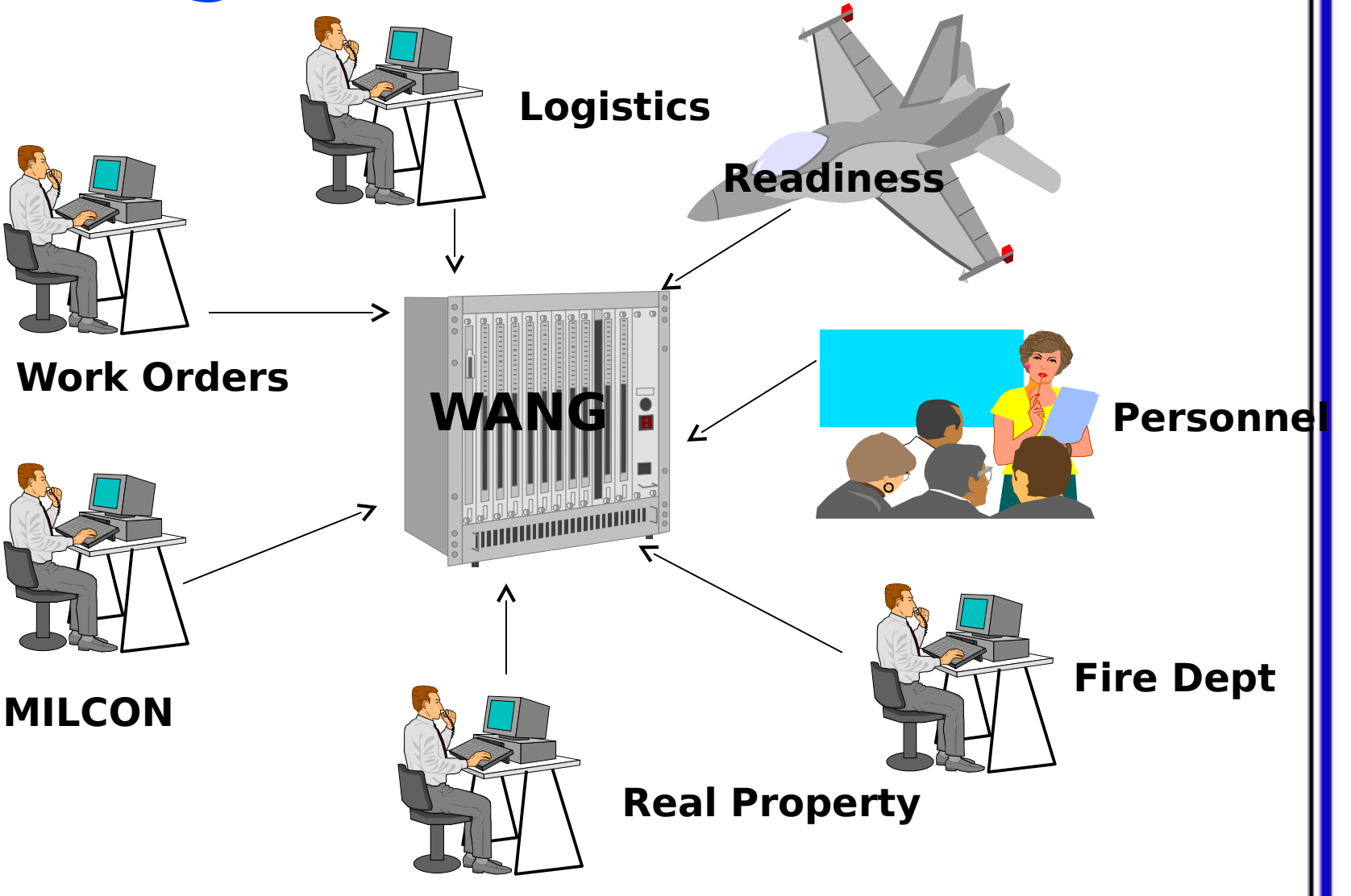
Overview

- Background
- Logical Data Model
- ACES Status
- Summary

Background CE Automation

- **Work Information Management System (WIMS)**
  - Systems Fielded on WANG Hardware in each CE Organization

Original WIMS 1983-1991



Background CE Automation

- **Work Information Management System (WIMS)**
  - Systems Fielded on WANG Hardware in each CE Organization
- **BEAMS Evolution**

BEAMS Evolution 1992-1996

Readiness

Financial

Logistics

DUERS

Work Orders

WANG

Personnel

MILCON

Fire Dept

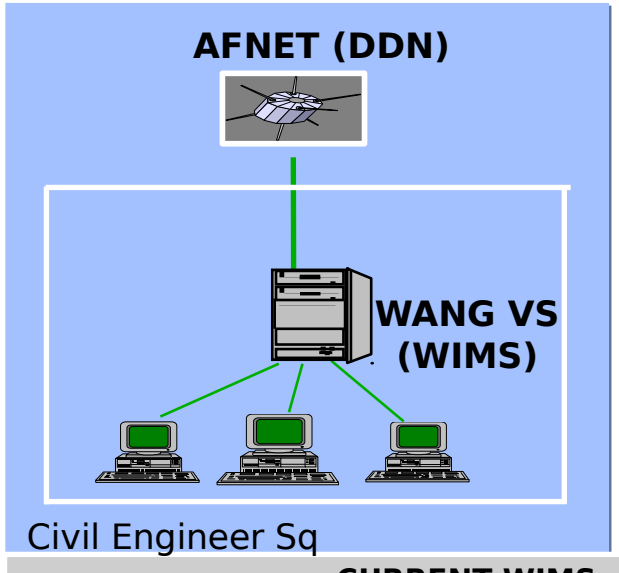
Environmental

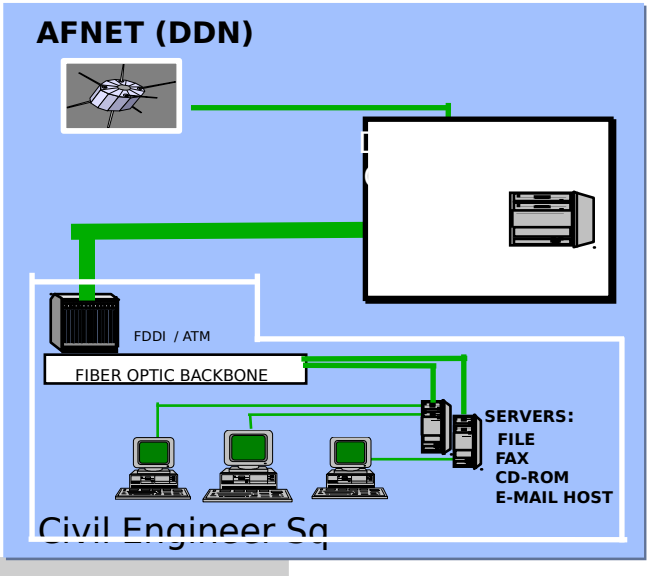
Real Property

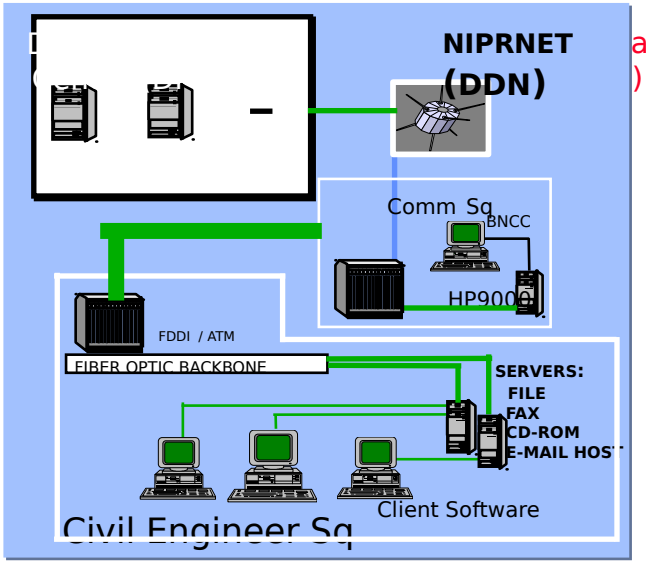
Housing

Modernization Template (1995)

Work Information Management System (WIMS)	INTERIM (IWIMS)	AUTOMATED CIVIL ENGINEER SYSTEM (ACES)







CURRENT WIMS

IWIMS

ACES

Software: Wang COBOL

Software:
Micro Focus COBOL
(Same Look and Feel)

Software:
COTS Products

Data:
Wang Index Format

Data:
Micro Focus IDX Format
(Same as Wang)

Data: Relational Database
- SQL Compliant
- Oracle
- Re-Evaluate WIMS Data Elements
  - Delete obsolete elements
  - Add new elements
  - Must meet DoD standards

WANG O/S

DII-COE COMPLIANT O/S

Background CE Automation

- **Work Information Management System (WIMS)**
  - Systems Fielded on WANG Hardware in each CE Organization
- **BEAMS Evolution**
- **DRMD 924 - ADPE Consolidation**
- **Software Modernization/(PMD 0923)**

Wang Replacement IWIMS
1994-1998

Readiness

Financial

Logistics

DUERS

Regional Open System

Work Orders

Personnel

MILCON

Fire Dept

Environmental

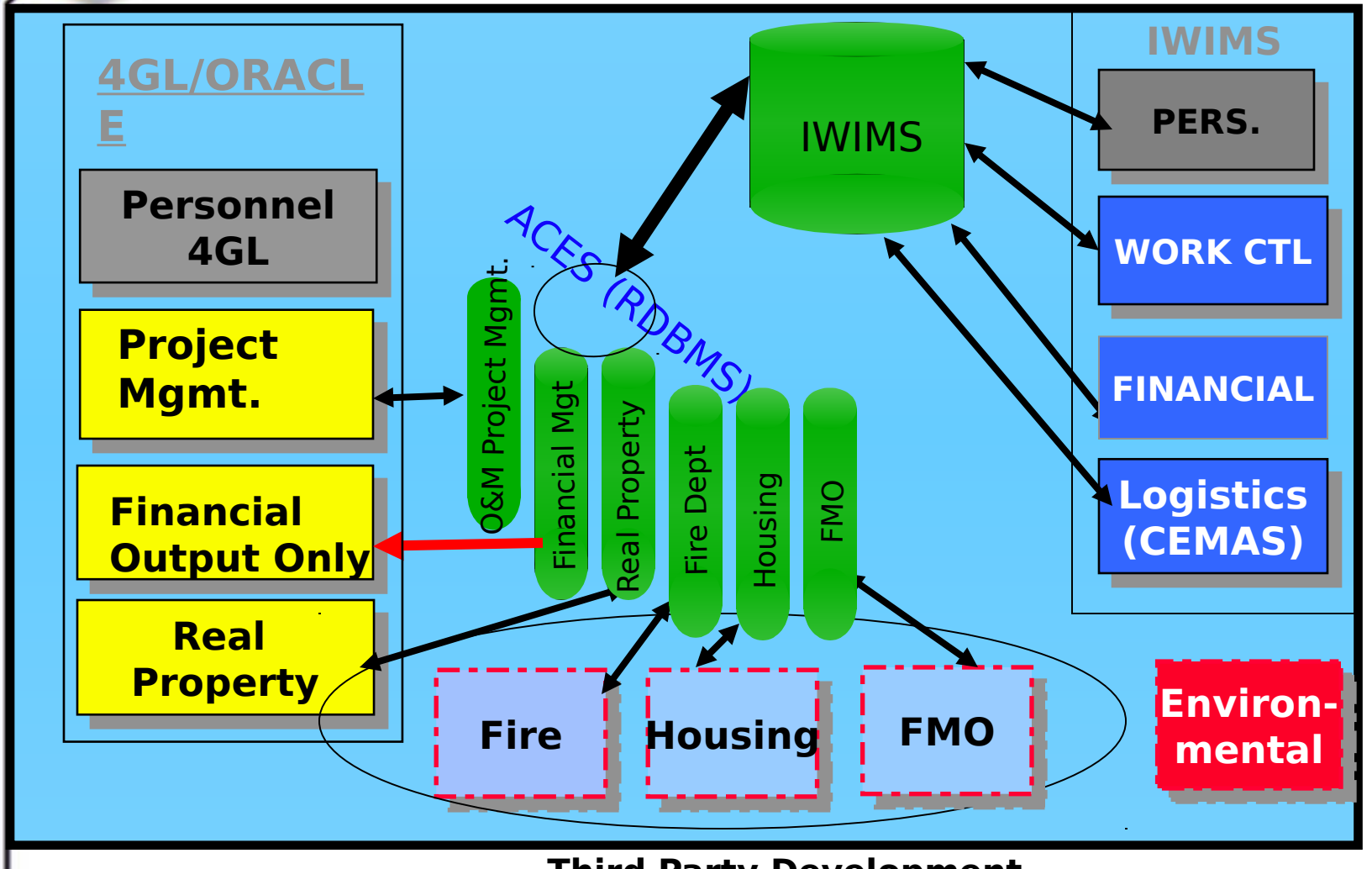
Real Property

Housing

Background CE Automation

- **Work Information Management System (WIMS)**
  - Systems Fielded on WANG Hardware in each CE Organization
- **BEAMS Evolution**
- **DRMD 924**
- **Software Modernization/(PMD 0923)**
- **Resource Reduction**
  - Personnel, Budget

IWIMS/ACES



Personnel Data System (PDS)

Job Order Cost Acctg System (JOCAS)

Interface Services

Std. Base Supply System (SBSS)

Base Contracting Auto Sys (BCAS)

Interim Work Info. Mgmt. System (I-WIMS)

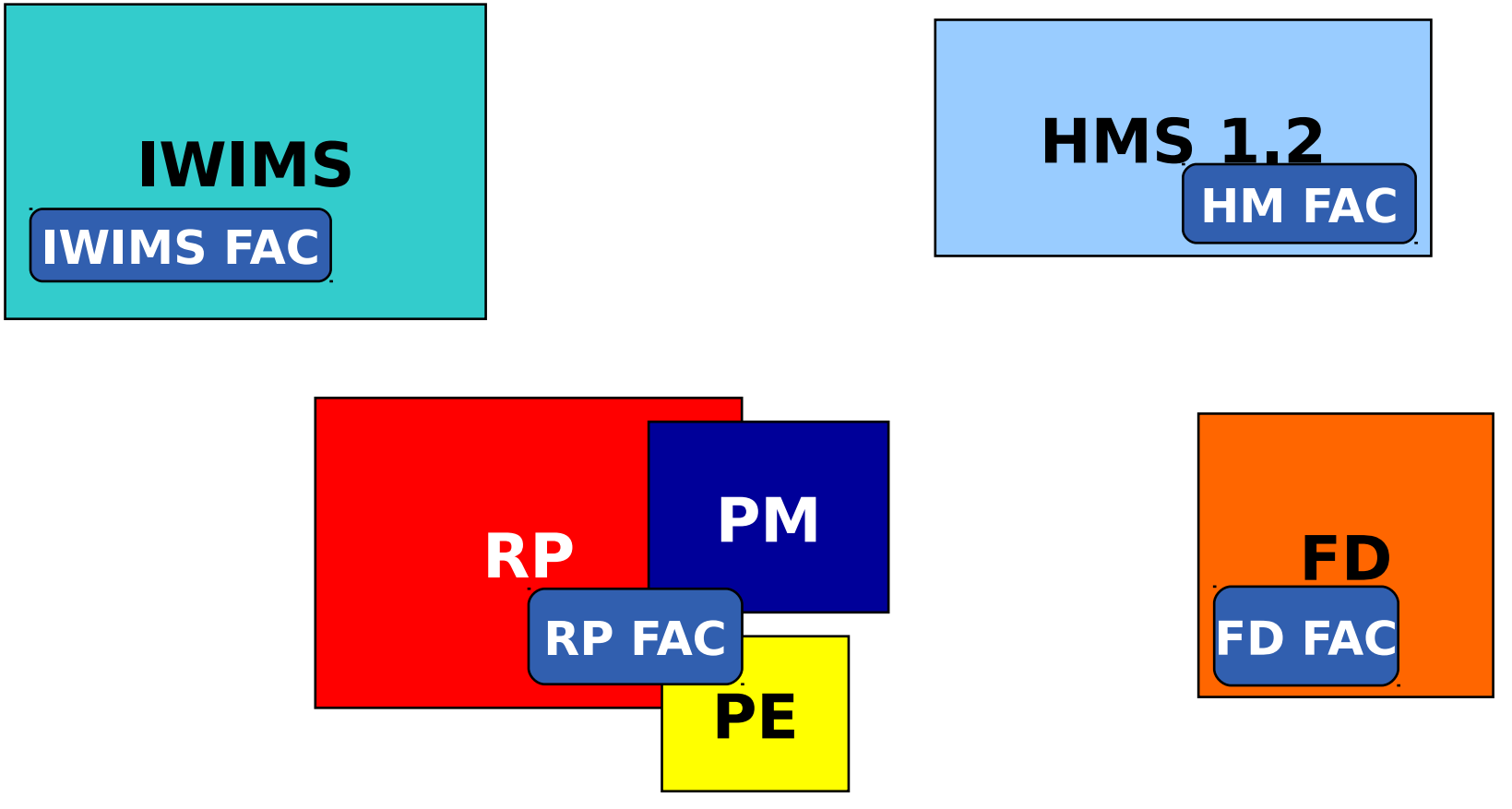
Automated Fac Info. Program (AFIP)

Genl Acctg & Fin Sys (GAFS)

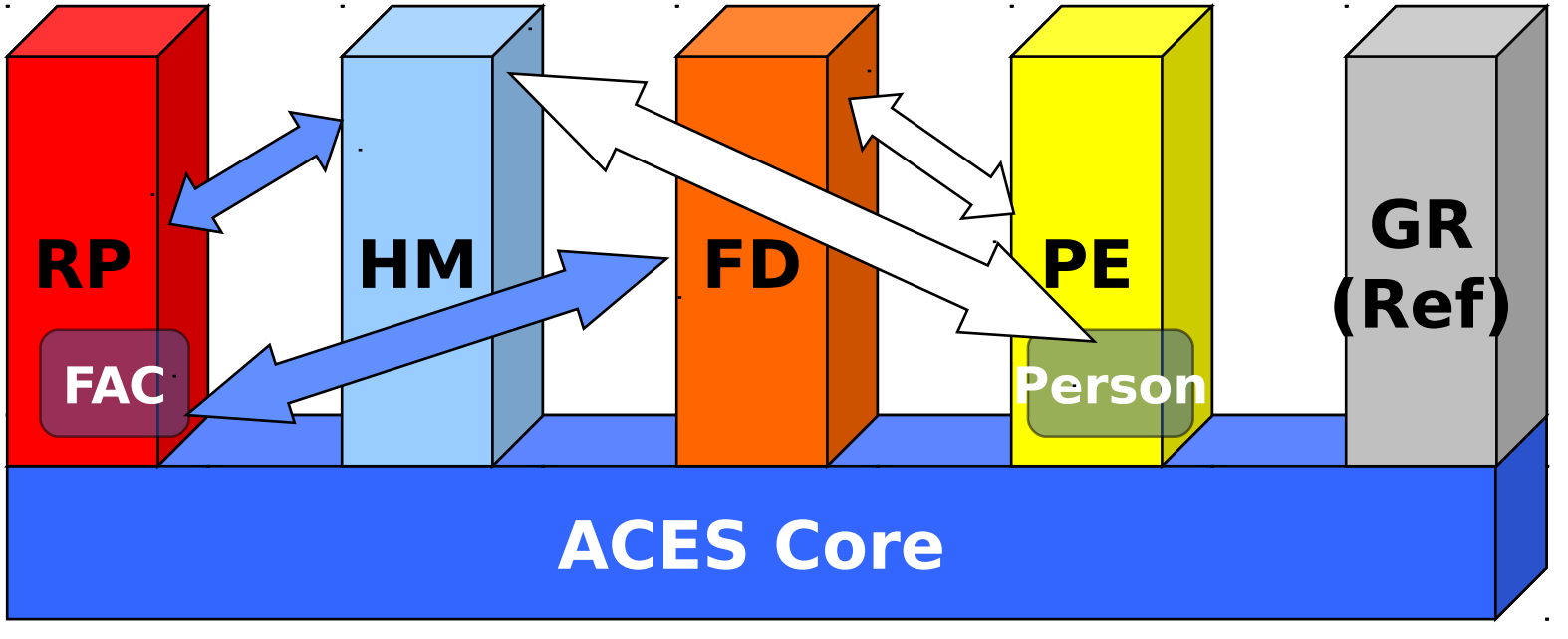
=INPUT and OUTPUT INFORMATION

= ONE WAY IFORMATION FLOW

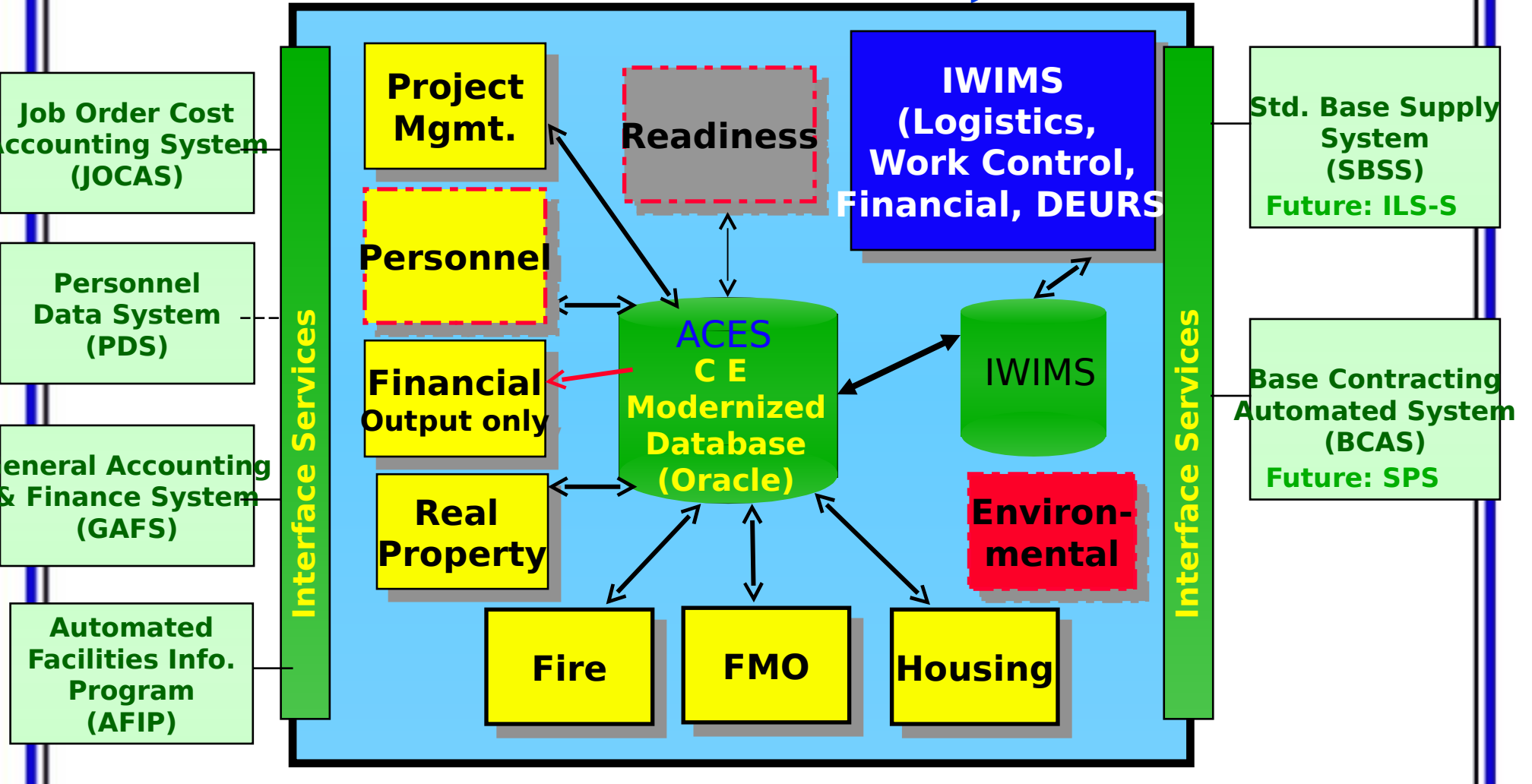
Current Data Environment



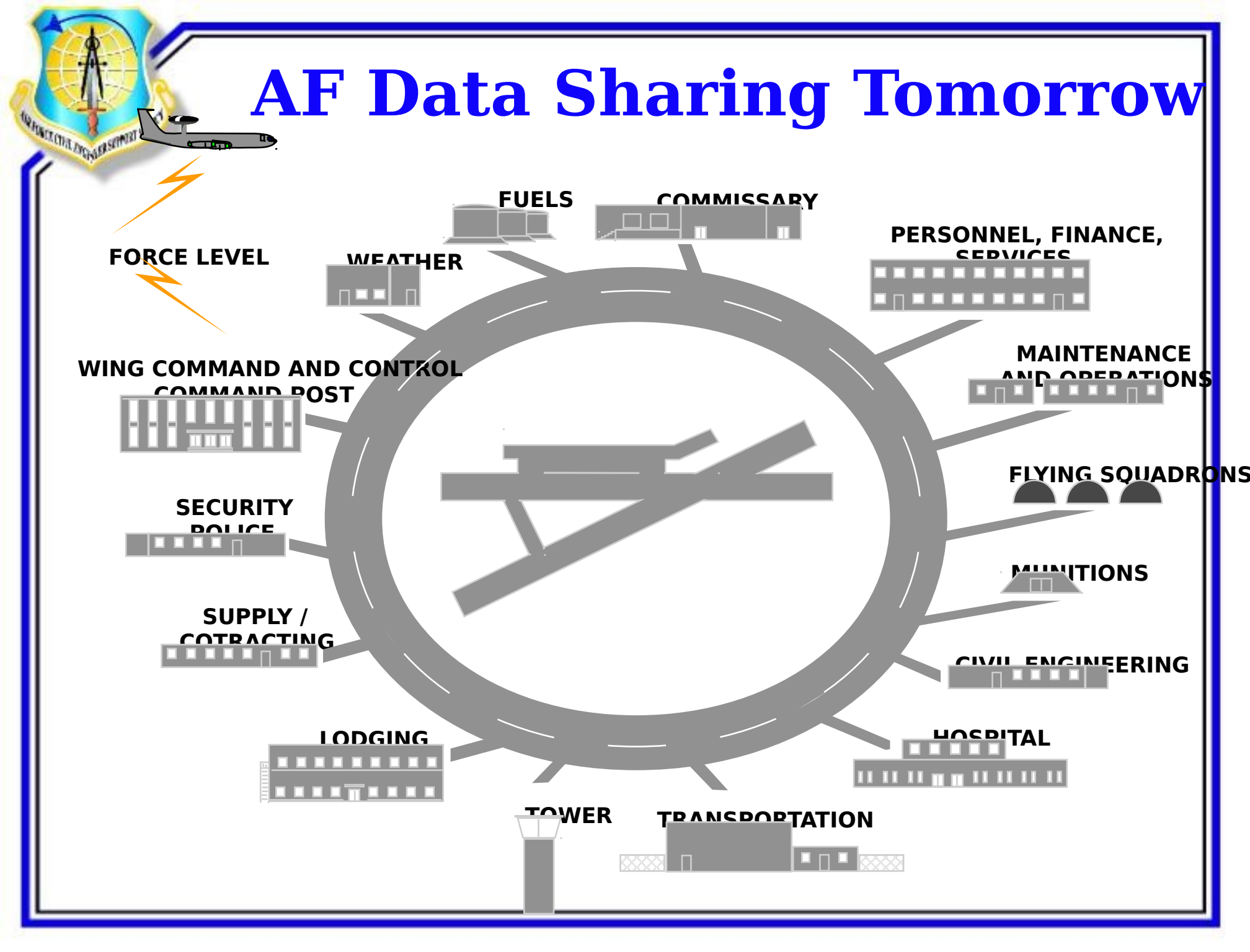
Base Level Database



ACES (Post Logical Data Model)



AF Data Sharing Tomorrow



Future Data Environment

- **Single Base Level Database**
- **Functional Areas (Applications) will plug into the database.**
- **Tables will be shared by Applications.**
  - Each Table is “owned” by a single application. (Insert & Delete)
  - Other Applications may update selected columns in a shared table. (Update)

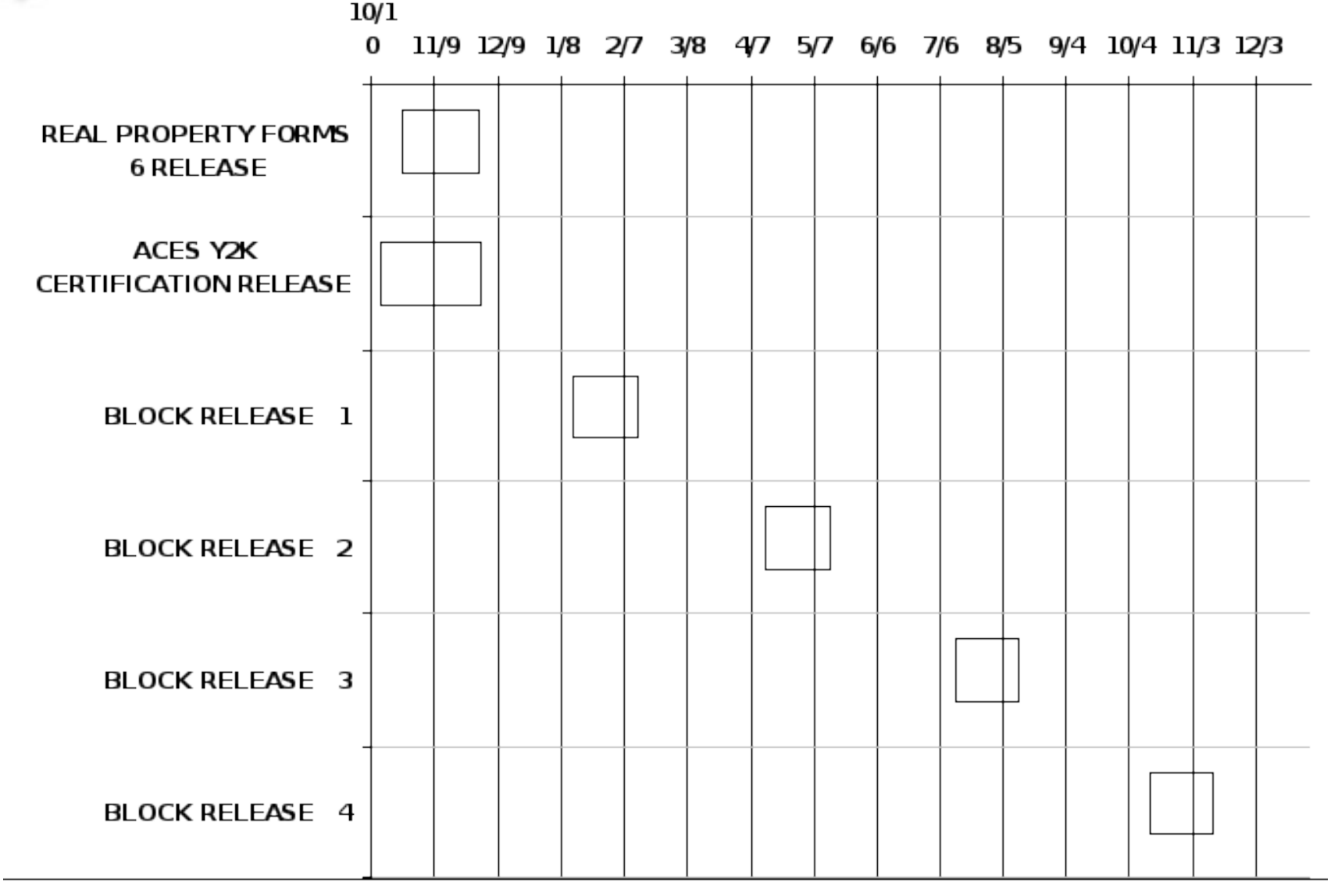
Issues

- Different Business Rules
- Same name - different definitions
- Who has insert & delete control for a given Table
- Database overlap (HMO, FMO)
- Hidden Business Rules
- Similar Tables
- Everything is needed now

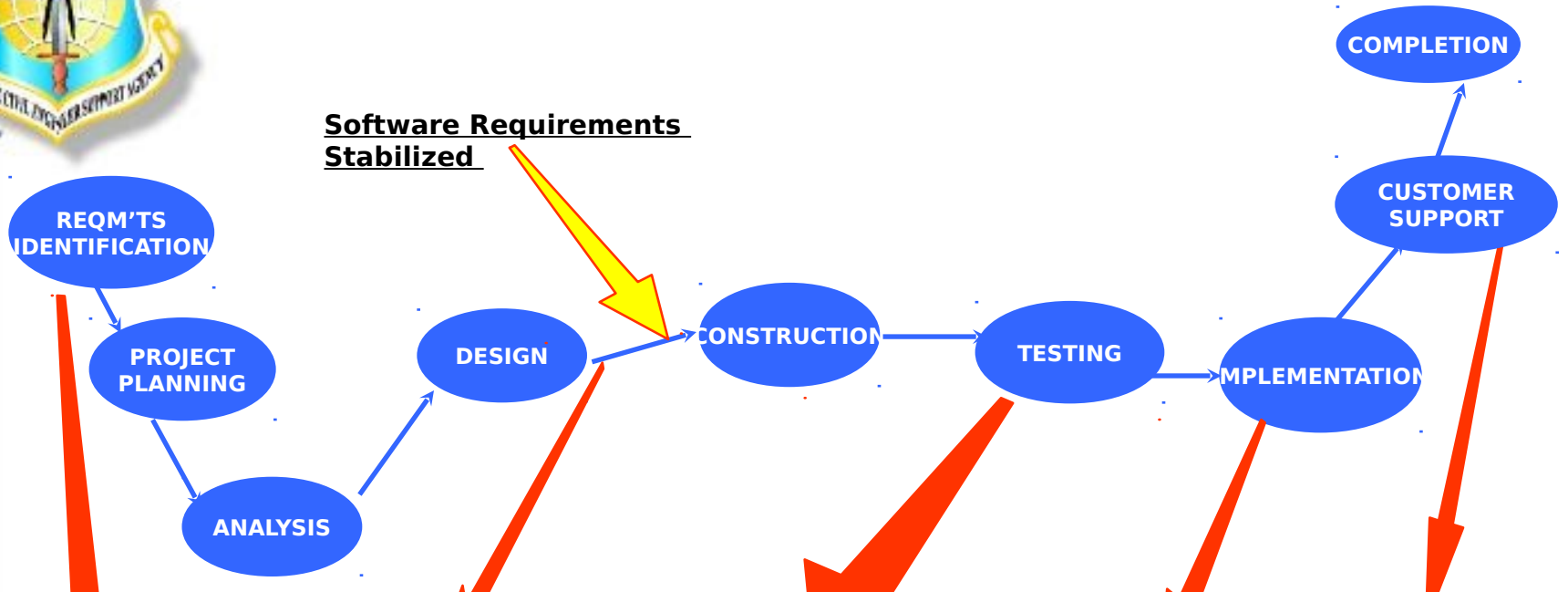
ACES Status

- Scheduled Releases
- Develop single logical data model
- Project Management (MILCON, A106, O&M)
- Initial OPS IPT Work
- Housing
- Fire Department

Scheduled Releases



Software (SW) and Courseware (CW) Development Process



Defined requirements for software product development.

Critical design review is complete and documentation, training, and software development begins

SW and CW are alpha tested together at SSG or at the school houses. Test group is multi-MAJCOM, team members to record changes needed. Team variations are recorded.

SW and CW team member is present at first implementation at a base. SW and CW content is corrected in subsequent distribution copies.

FAB or similar mechanism collects info on changes needed to SW and CW as field uses module. These are forwarded to SW and CW development team. Changes are made to SW and CW throughout life of the version.

ACES Complete

- **When IWIMS Replaced**
  - [x] Field Real Property
  - [ ] Field Housing/Furnishings Management
  - [ ] Field Fire Department
  - [ ] Field Project Management
  - [ ] Field Logical Database
  - [ ] Field Personnel
  - [ ] Field DUERS
  - [ ] Field Readiness
  - [ ] Field Operations
  - [ ] Response Time Acceptable
  - [ ] Field Environmental

Summary

- **Real Property with CFO Implemented**
  - Although Painful was Successful
- **Next 12-months**
  - Field Project Management
  - Single Logical data model
  - Complete Housing Re-write
  - Start Personnel/Readiness
  - OPS IPT Start Up

Questions ?